A2 cont.

transmission values of the oriented films were determin d to be 174 and 59 cc(STP)CO_2/meter^2/24hr for the 10 and 30 vol% films respectively.

Please delete the paragraph at page 24, lines 10 through 20, and insert therefor the following paragraph:

A3

Two trilayer films were extruded comprising internal layers of about 10 and 30 vol% of the above modified MXD6 6007, available from Mitsubishi Gas Company, with two external layers of PET-9921, available from Eastman Chemical Company. Several 2-inch square sections of the trilayer films were stretched using a T. M. Long instrument (4x4 orientation at about 110°C). The carbon dioxide transmission values of the oriented films were determined to be 168 and 54 cc(STP)CO_2/meter^2/24hr, for the 10 and 30 vol% films respectively. Oxygen consumption for 3.0 grams of the inner layer, after removing the PET 9921 layers from the unoriented film comprising 30 vol% inner layer, was determined to be about 370 microliters of oxygen over a period of 136 hours, as shown in Figure 1.

Please delete the paragraph at page 25, lines 12 through 22, and insert therefor the following paragraph:

A4

Two trilayer films were extruded comprising internal layers of about 10 and 30 vol% of the above modified MXD6 6007, available from Mitsubishi Gas Company, with two external layers of PET-9921, available from Eastman Chemical Company. Several 2-inch square sections of the trilayer films were stretched using a T. M. Long instrument (4x4 orientation at about 110°C). The carbon dioxide transmission values of the oriented films were determined to be 117 and 41 cc(STP)CO_2/meter^2/24hr, for the 10 and 30 vol% films respectively. Oxygen consumption for 3.0 grams of the inner nanocomposite layer, after removing the PET 9921 layers from the unoriented film comprising 30 vol% nanocomposite, was determined to be about 680 microliters of oxygen over a period of 136 hours, as shown in Figure 1.

Please delete the paragraph at page 25, line 27 through page 26, line 9, and insert therefor the following paragraph:

a5

Using a Leistritz Micro-18 twin screw extruder, 4 parts of the material prepared in Comparative Example 2 was extrusion compounded with 96 parts of PET-20261, available from Eastman Chemical Company, at a temperature of about 275°C with screw speed of about 300 rpm and feed rate of about 2 kg/hr, and the composite was stored under nitrogen. A trilayer film was extruded comprising internal layers of about 50 vol% of this material with two external layers of PET-9921, available from Eastman Chemical Company. Several 2-inch square sections of the trilayer film was stretched using a T. M. Long instrument (4x4 orientation at about 110°C). The carbon dioxide transmission value of the oriented film was determined to be 411 cc(STP)CO_2/meter^2/24hr, for the 50 vol% film. Oxygen consumption for 10 grams of the unoriented film comprising 50 vol% of the extrudate of PET 9921 with the composite was determined to be about 60 microliters of oxygen over a period of 136 hours, as shown in Figure 2.

Please delete the paragraph at page 26, lines 17 through 26, and insert therefor the following paragraph:

a6

Two trilayer films were extruded comprising internal layers of about 30 and 50 vol% of this material with two external layers of PET-9921, available from Eastman Chemical Company. Several 2-inch square sections of the trilayer films were stretched using a T. M. Long instrument (4x4 orientation at about 110°C). The carbon dioxide transmission values of the oriented films were determined on a Mocon permeability tester to be 317 and 291 cc(STP)CO_2/meter^2/24hr, for the 30 and 50 vol% films respectively. Oxygen consumption for 10 grams of the unoriented film comprising 50 vol% of the extrudate of PET 9921 with the nanocomposite was determined to be about 60 microliters of oxygen over a period of 136 hours, as shown in Figure 2.

Please delete the paragraph at page 29, lines 6 through 20, and insert therefor the following paragraph: